



Adaptive Technology Briefing



Air Force e-Business Training Workshop

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Ms. Martina Johnson (PM)

martina.johnson@ams.com

Ashish Jakhete

(Technical Lead)

ashish.jakhete@ams.com





Agenda

- ***Purpose***
- ***Adapter Overview***
- ***Translator***
- ***Integration Product Set Demo***



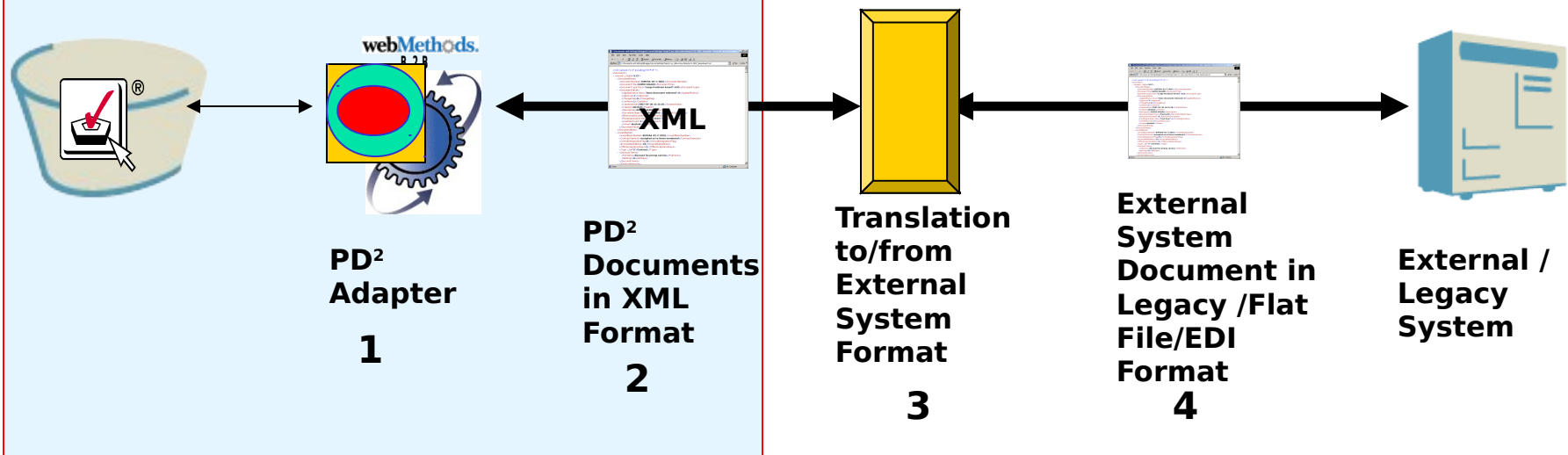
Purpose

Explain the Role of the PD² Adapter and its Components in the Integration Product Set for Interfacing with External Systems



Integration Product Set

Integration Product Set

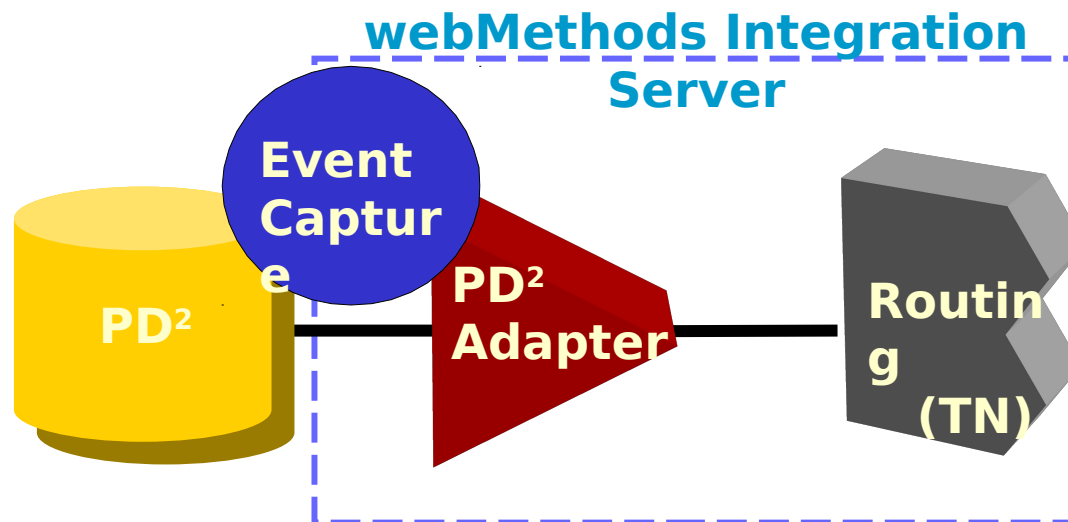


We Enable the Warfighter to Win



What is an Adapter?

An Adapter is a Collection of Pre-Built Services Stored in one or more Packages





PD² Adapter Overview

- ***PD² Adapter is Designed to be Generic and Useable Across Multiple External Systems***
- ***The PD² Adapter can Integrate with any External System that can Accept XML files***
- ***The Documents can be Received and Sent using Different Transport Mechanisms***
 - ***e.g., HTTP, HTTPS, FTP, etc***
- ***Supports, SSL and Provides Reliable Delivery, Audit Trails, Content Routing and Interacts with Multiple Internal and External Databases***



PD² Adapter Success Stories

- ***Navy MSC***
 - ***Oracle Financials integrating with SPS***
- ***NAVAIR***
 - ***SAP (Pr and Financials) integrating with SPS***
- ***ILSMIS***
 - ***Navy Requisition and Financial system integrating with SPS***
- ***US Marine Corps***
 - ***PR builder + Financial System integration with SPS***
- ***DLA BSM***
 - ***SAP integrating with SPS***



PD² Adapter Benefits

- ***Data migration***
- ***Easy installation***
- ***Low maintenance***
- ***Auditing***
- ***Facilitate matrix reporting capability***
- ***Real time processing***
- ***Reusability***



PD² Adapter

- ***Components***
- ***Architecture***
- ***Triggers***
- ***Polling***
- ***System Administration***

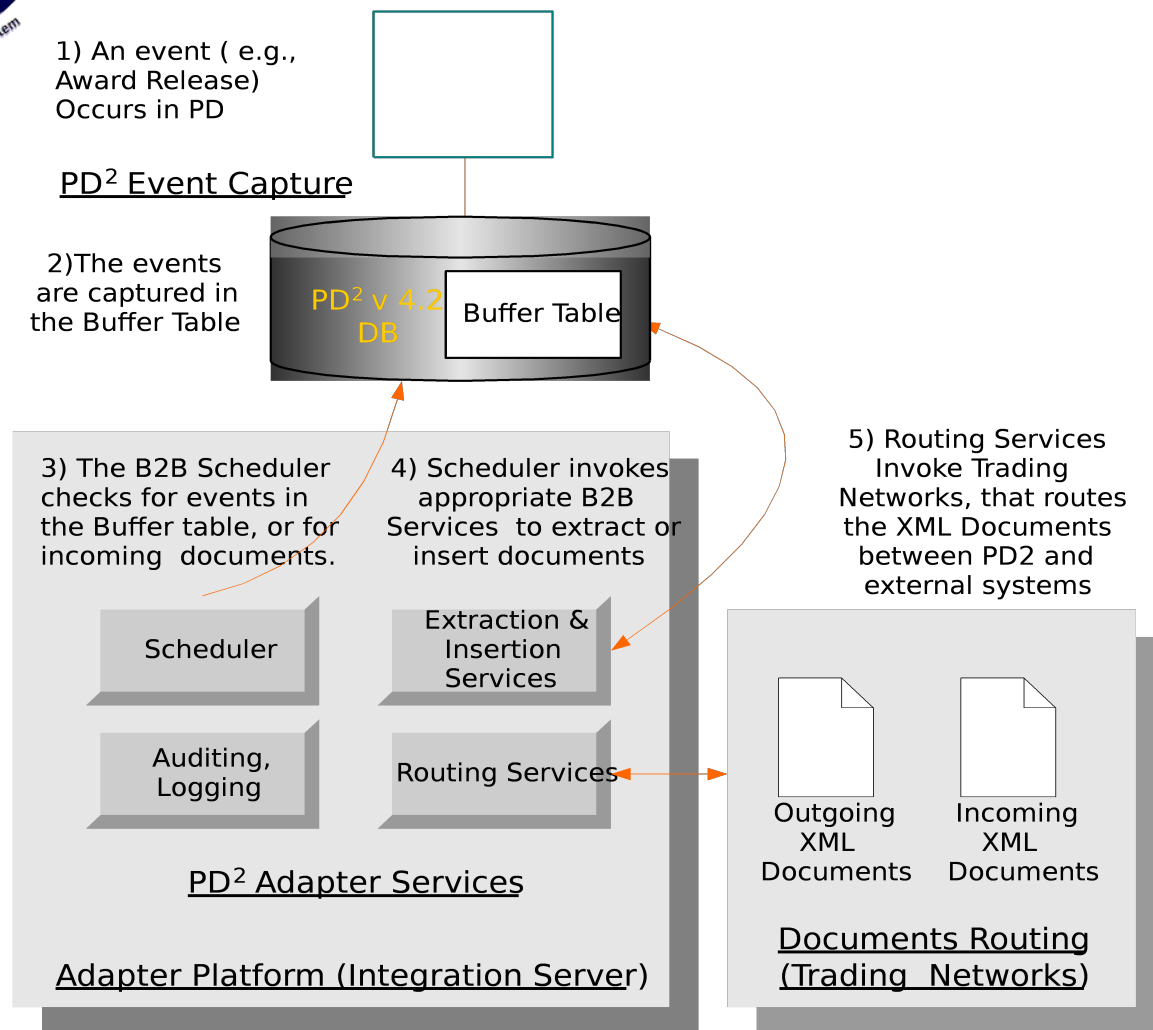


PD² Adapter Components

- 1. Adapter Platform - webMethods Integration Server***
- 2. Adapter Services - Custom Java & Flow services***
- 3. Event Capture - Pre-defined events in the PD² and TN databases***
- 4. XML Documents - Documents extracted from and inserted into the PD² database are encoded in XML***
- 5. Document Routing - Enhanced routing of XML documents between***



General Architecture Diagram





Triggers

- ***To capture events taking place in the PD² application, the PD² Adapter utilizes triggers***
- ***A trigger is a stored procedure that goes into effect when a user inserts, deletes, or updates data in a table***
- ***A trigger executes automatically when a user attempts a specified data modification statement on a specified table***
- ***Each table in a database can have at most 3 triggers defined--one for inserts, one for deletes, and one for updates***
- ***The trigger populates a new row in the buffer table, which is polled on a regular***



Polling

- ***Polling services are integration services defined on the Integration Server.***
- ***Periodically checks the buffer table to find out which relevant events have been recorded, and based on this information invoke the appropriate document Extraction service.***
- ***Periodically checks the TN repository to find out if there are documents waiting for Insertion***



PD² Adapter System Administration

Roles and responsibility of a SA:

- Ensure the Integration Server is up and running***
- Assigning user name and passwords***
- Monitoring the server***
- Assisting upgrades***
- Configuration***
- Initial installation and configuration time 4-6 hours***
- Overall commitment of 2.5 hours per week***
- Troubleshooting***



Air Force Interfaces

- ***SPS-I Air Force Interfaces***
 - ❑ ***Automated Business Services System (ABSS)***
 - ❑ ***Integrated Accounting and Payment System (IAPS)***
 - ❑ ***Federal Procurement Data (J001)***
 - ❑ ***Medical Material Management System (MEDLOG) /
Defense Medical Logistics Supply System (DMLSS)***
 - ❑ ***MONGOOSE***
 - ❑ ***Standard Base Supply System (SBSS)***
 - ❑ ***Wholesale/Retail Receiving/Shipping System
(WARRS)***
 - ❑ ***Workload Information Management System
(WIMS) / Civil Engineer Material Acquisition
System (CEMAS)***



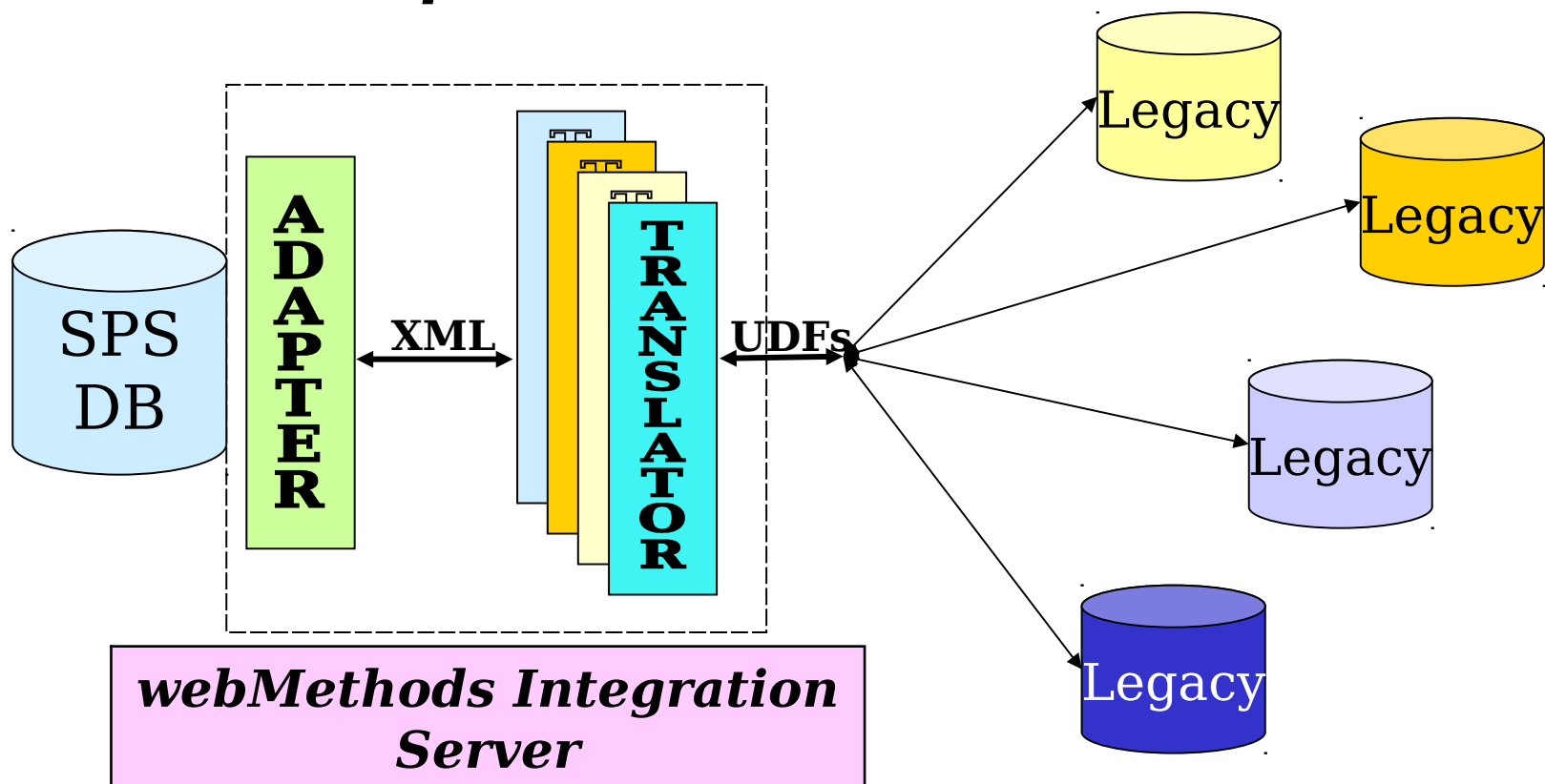
Translator

- ***Accepts XML documents from the PD² Adapter and converts them into UDF's and vice versa***
- ***It is modular and provides the following implementation options:***
 - ***SPS-I Replacement***
 - ***Centralized Admin***
 - ***Separate Adapter & Translator***
- ***Multiple Translators can reside on the same server***



Implementation Option #1

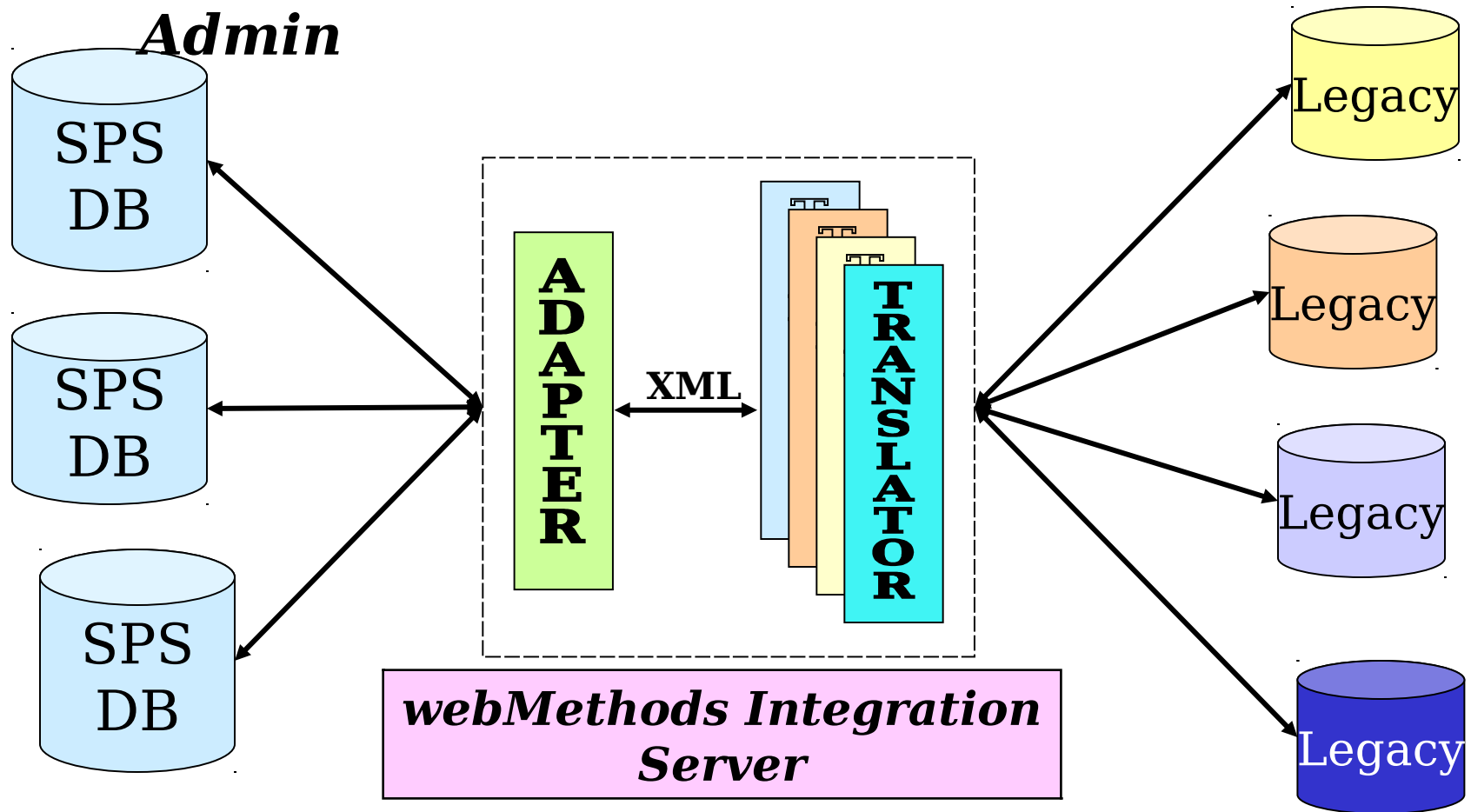
SPS-I Replacement





Implementation Option #2

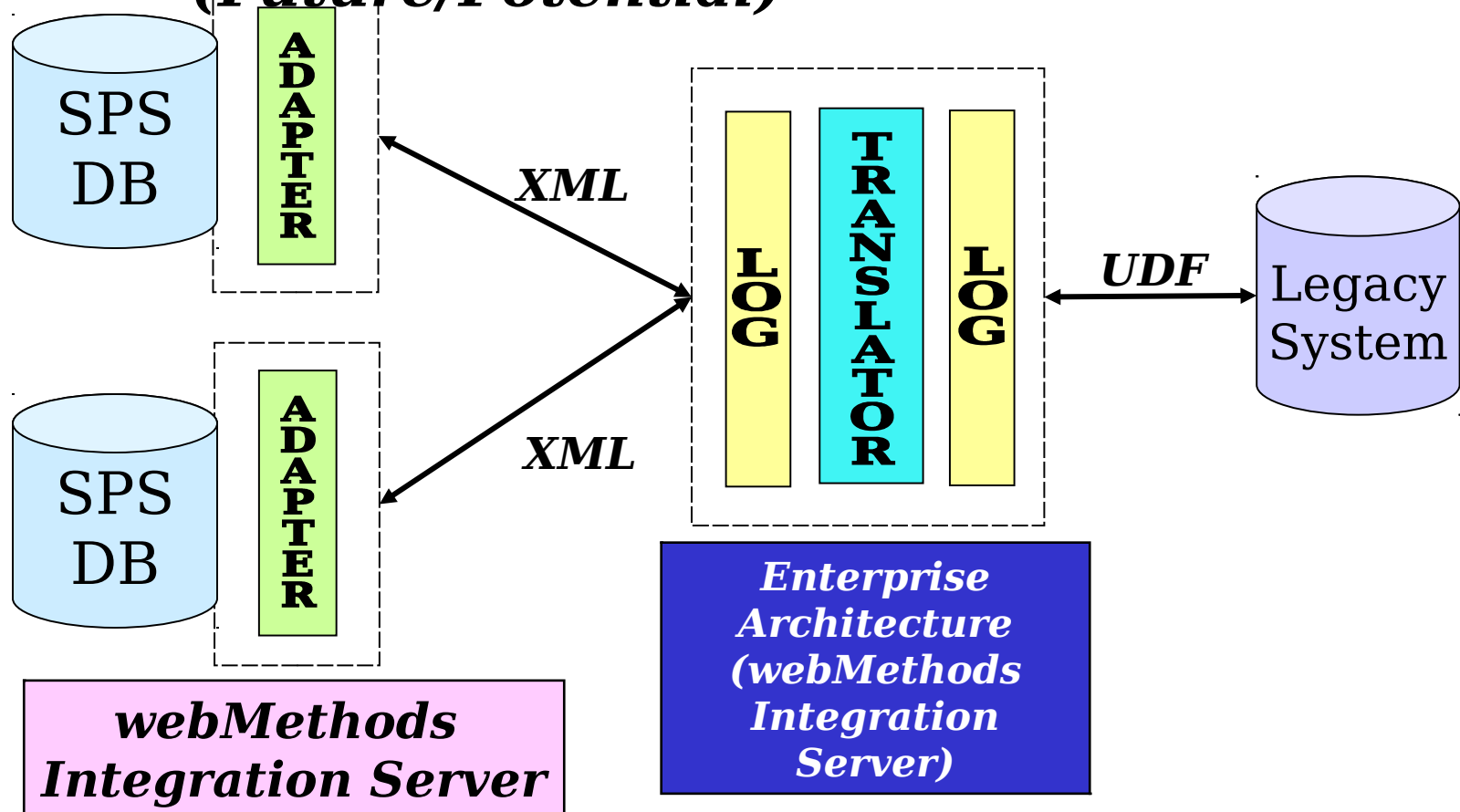
Centralized Admin





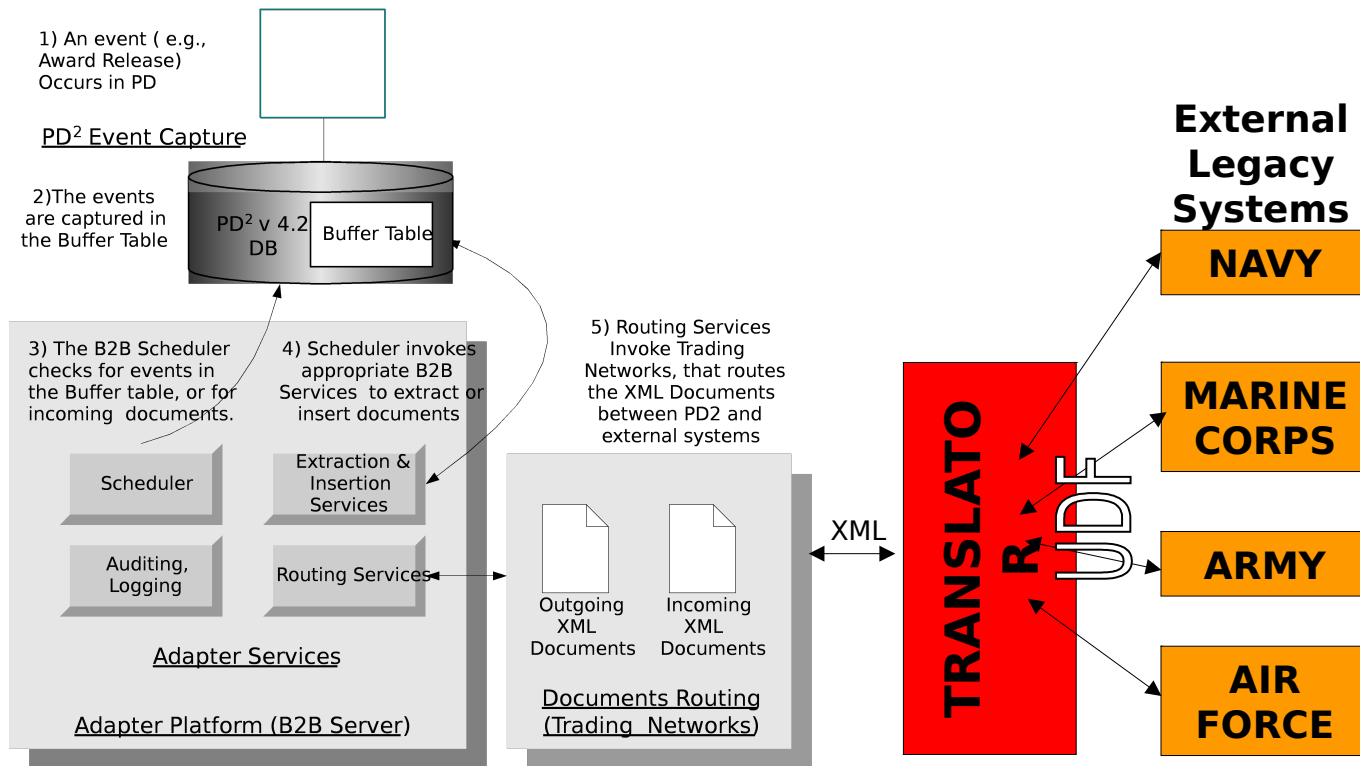
Implementation Option #3

Separate Adapter & Translator (Future/Potential)





Proposed Translator Architecture





Integration Product Set Demo

- 1. Incoming PR XML from an external system into PD² - PD² Adapter***
- 2. Outgoing approved and released Award XML - PD² Adapter***
- 3. Outgoing UDF Award Flat File using the Award XML - Translator***



Questions?

